



ASST. COM. Docket No. 990204/LH

**IN THE UNITED STATES PATENT
AND TRADEMARK OFFICE**

Applicant(s): H. OMURA et al
Serial No. : 09/281,710
Filed : March 30, 1999
For : EXTERNAL CAVITY LASER
Art Unit : 2881
Examiner : C. Jackson

AMENDMENT FILED CONCOMITANT WITH RCE

Assistant Commissioner for Patents

S I R :

Prior to examination, please amend the above-identified application as follows (see the attachment for the details of the amendment):

Please replace the paragraphs at page 1, lines numbered 12-30 with the following:

- Conventionally, some lasers of this type, such as the one described in U.S. Pat. No. 4,786,132, oscillate a single-wavelength laser beam with the use of an FBG in an external cavity. One such laser appears in OECC '96 (First Optoelectronics and Communications Conference Technical Digest, July 1996, Makuhari Messe), 18P-18. This laser, using the FBG in its external cavity, has a so-called lensed-fiber arrangement

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In the event that this Paper is late filed, and the necessary petition for extension of time is not filed concurrently herewith, please consider this as a Petition for the requisite extension of time, and to the extent not tendered by check attached hereto, authorization to charge the extension fee, or any other fee required in connection with this Paper to Account No. 06-1378.

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cont

such that an end facet of a fiber, which is an optical junction to a laser source, is lensed.

According to this laser, the transmission quality of transmitted signals is evaluated by the signal-to-noise ratio characteristic. In the case of picture transmission, for example, the relative intensity of noise (RIN) is adjusted to -130 dB/Hz or less. Thereupon, the inventors hereof conducted an experiment in which signals were transmitted under the following conditions using an apparatus model that is constructed in the same manner as the prior art example described in OECC '96, as shown in FIG. 5. --
